

FIG. 1

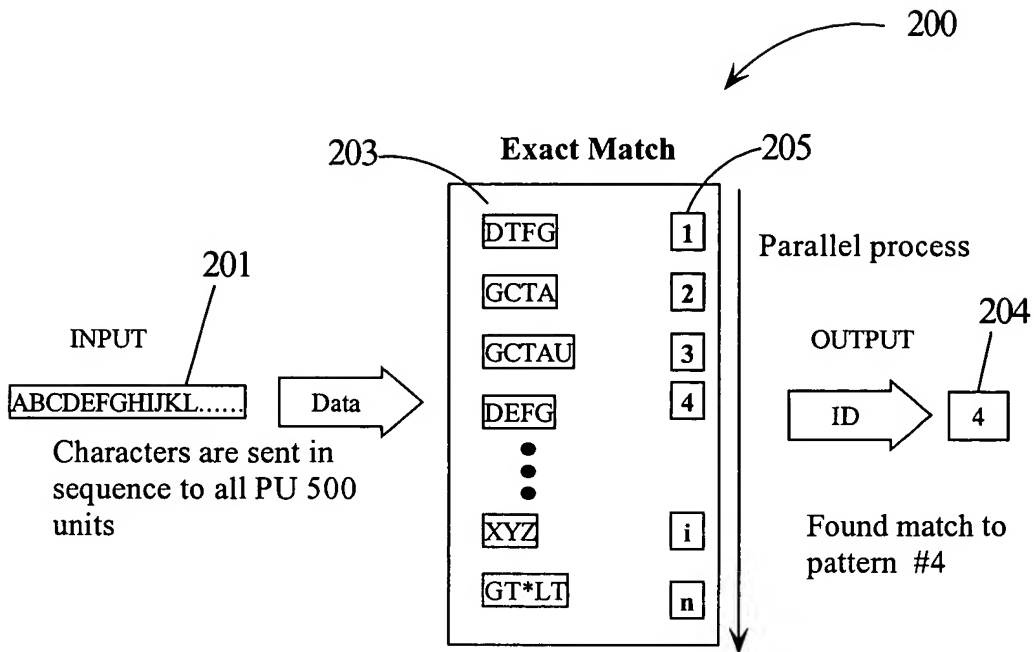


FIG 2A

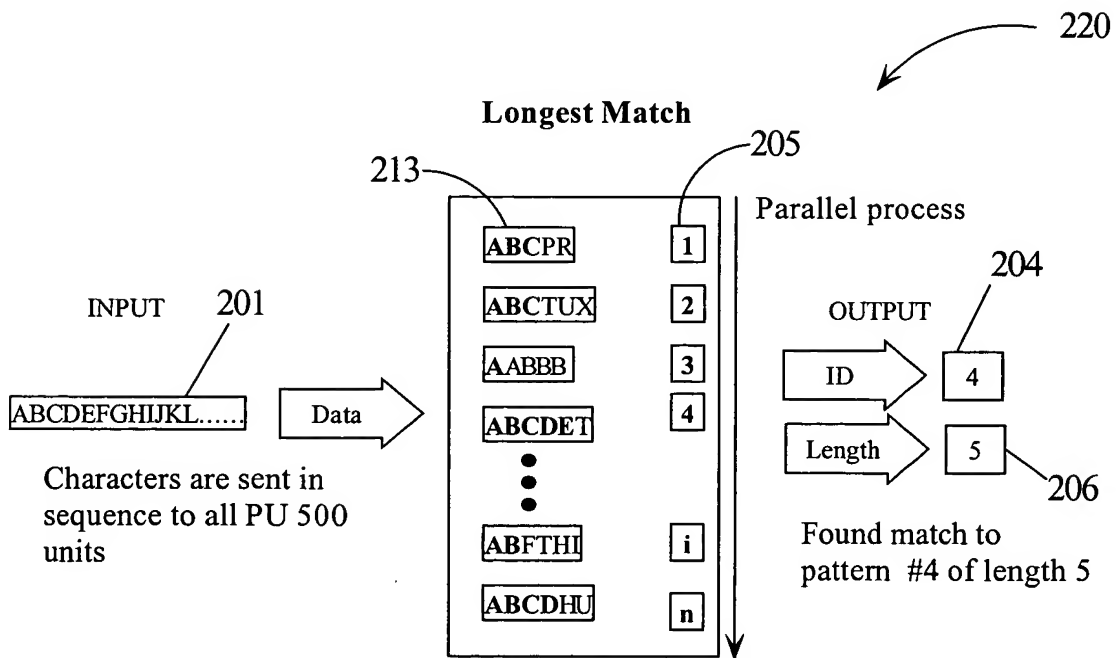


FIG 2B

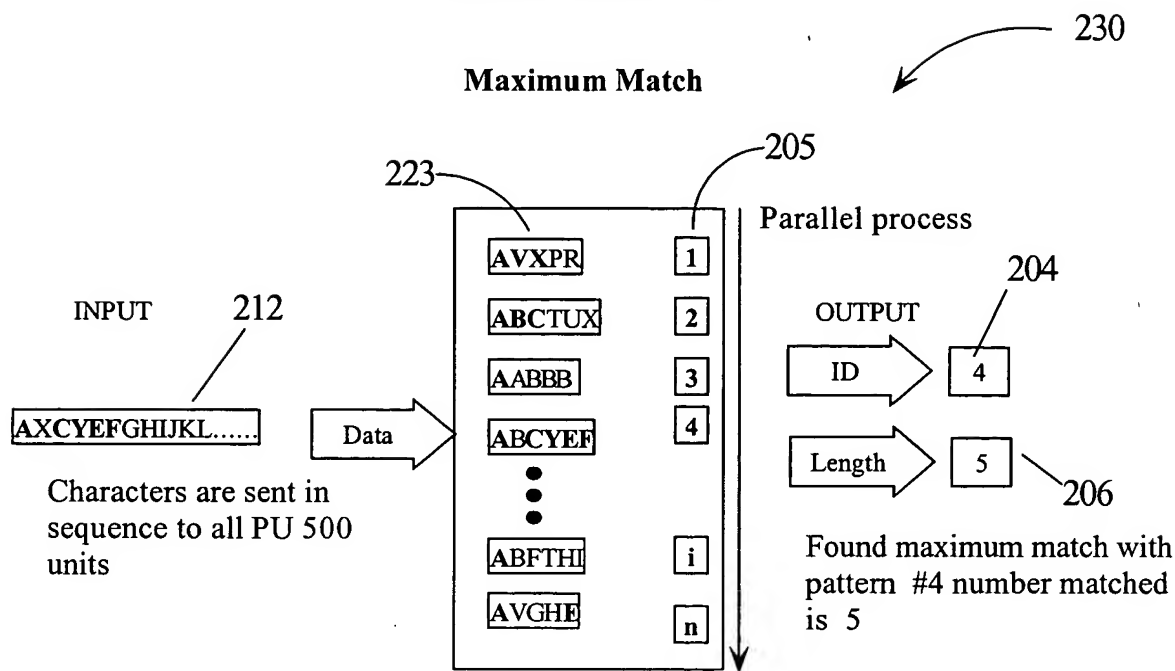


FIG 2C

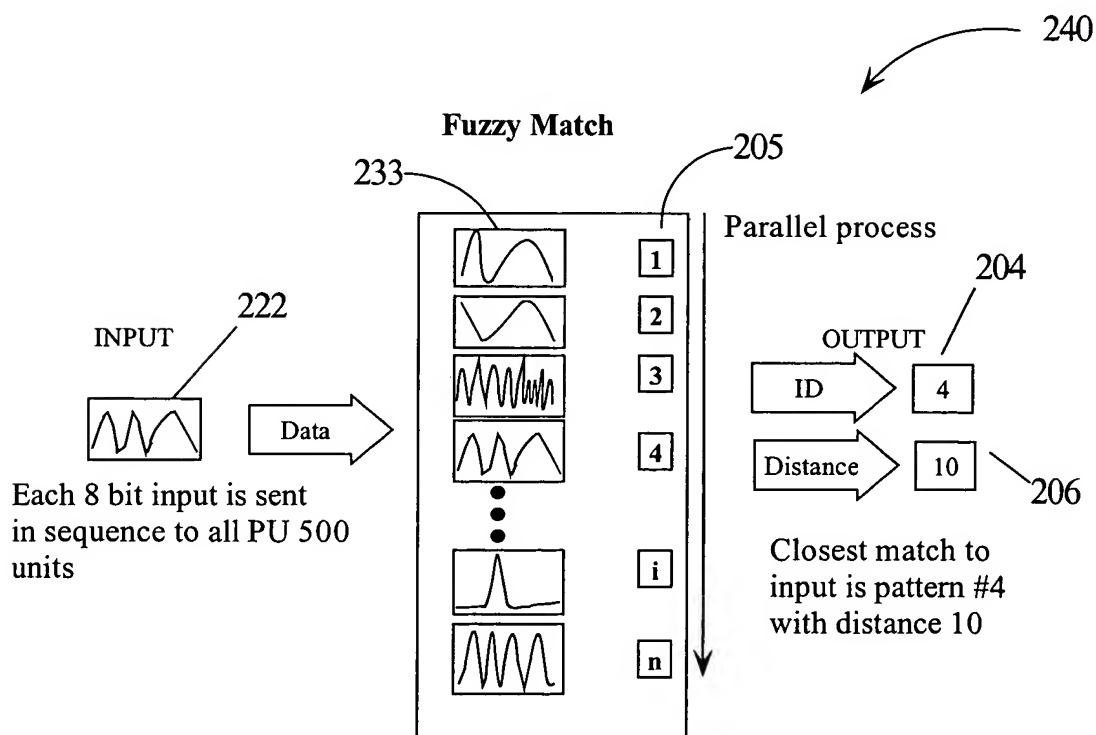


FIG 2D

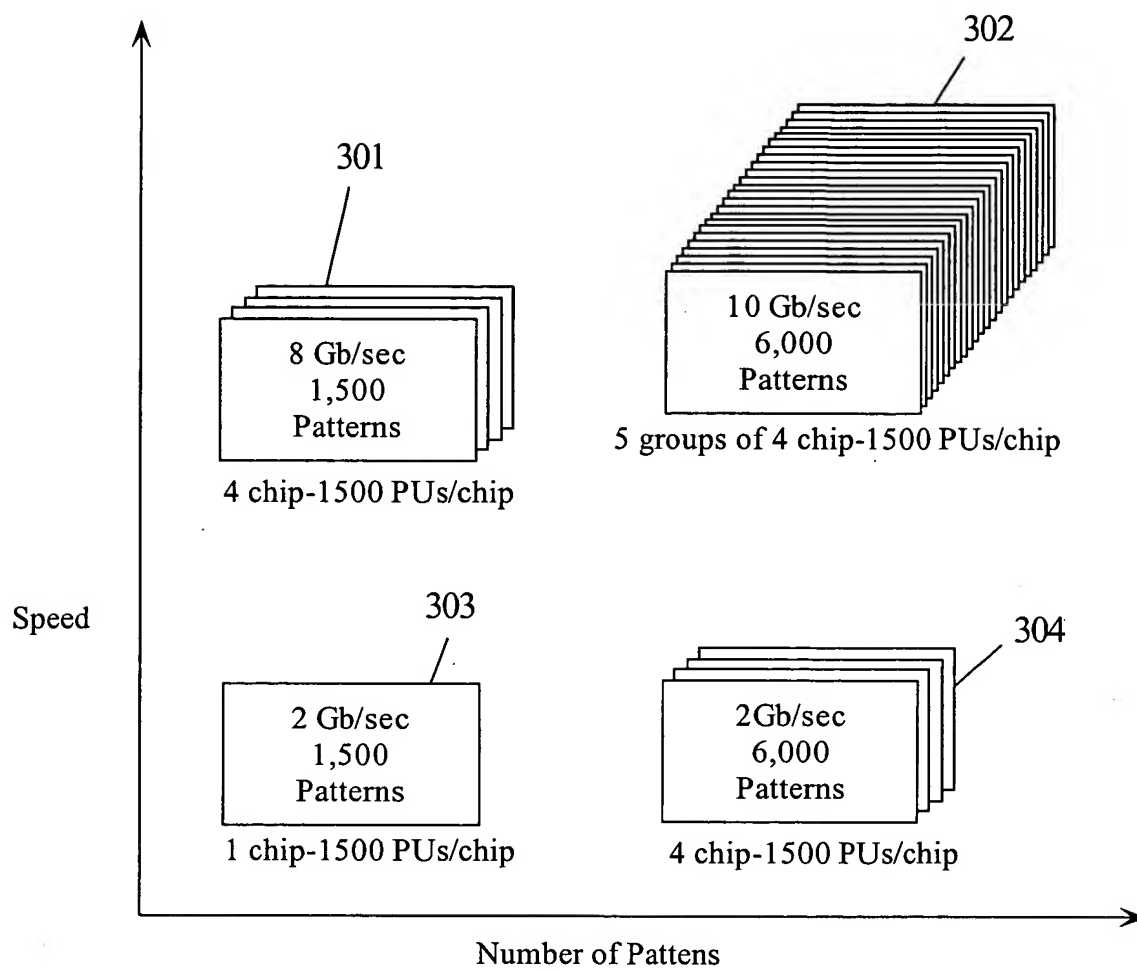


FIG. 3

5/20
RPS920030037US1

PPDE 100 Technical Features

Frequency	0 to 250 MHz
Bandwidth	2Gb/sec at 250 MHz
Compute Power	1.25 TOPS Equivalent
Power Consumption	300mW at 250MHz
Power Supply Vlotage	1.5 V internal (2.5 and 3.3 V compatible)
Technology	CMOS .13 Micron
I/O Pins	88
Die Size	8mm X 8mm
Interface	Fexible interface: max. 64 bits at 66 MHz (max. rate: 4Gb/sec)

FIG. 4

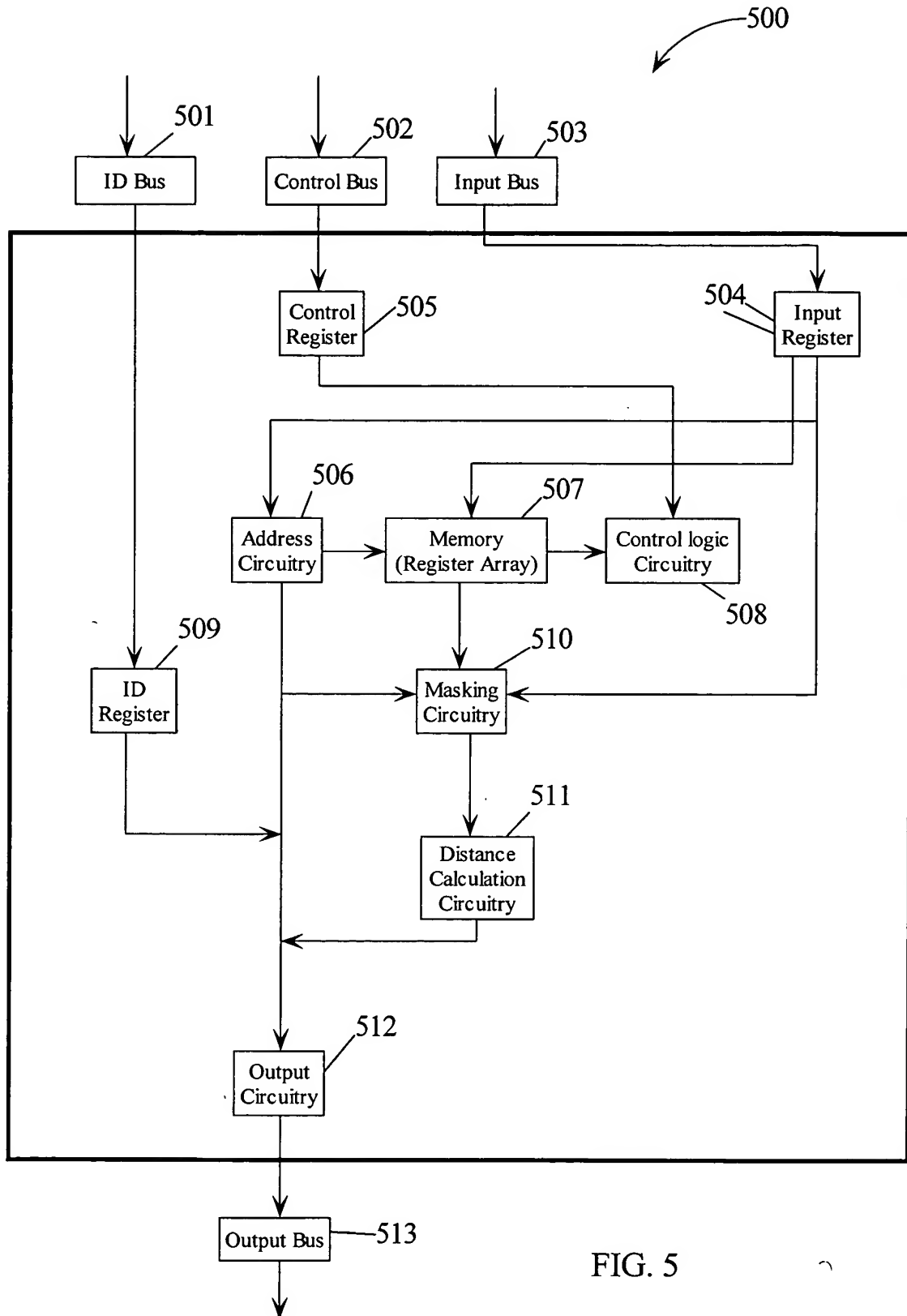


FIG. 5

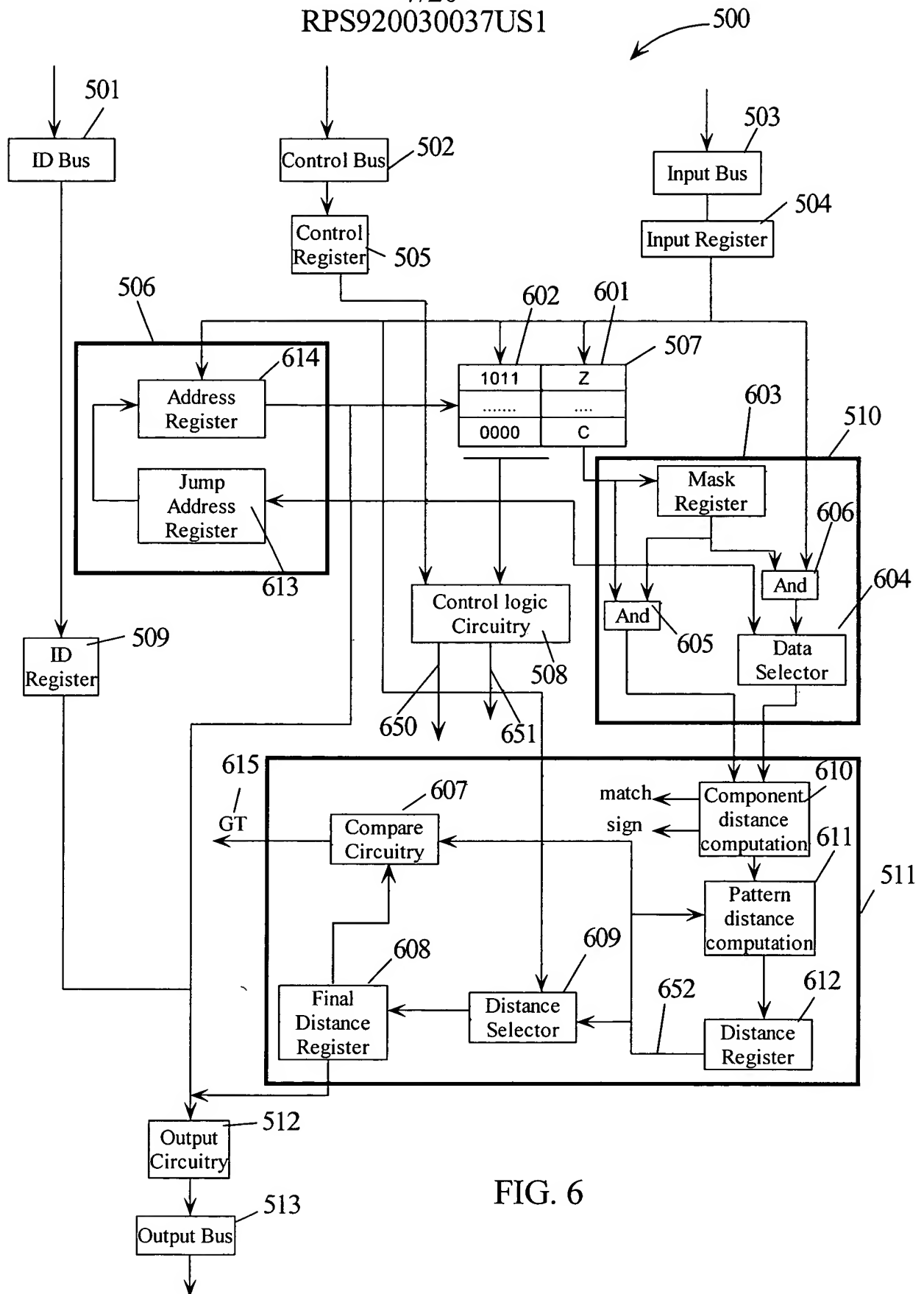


FIG. 6

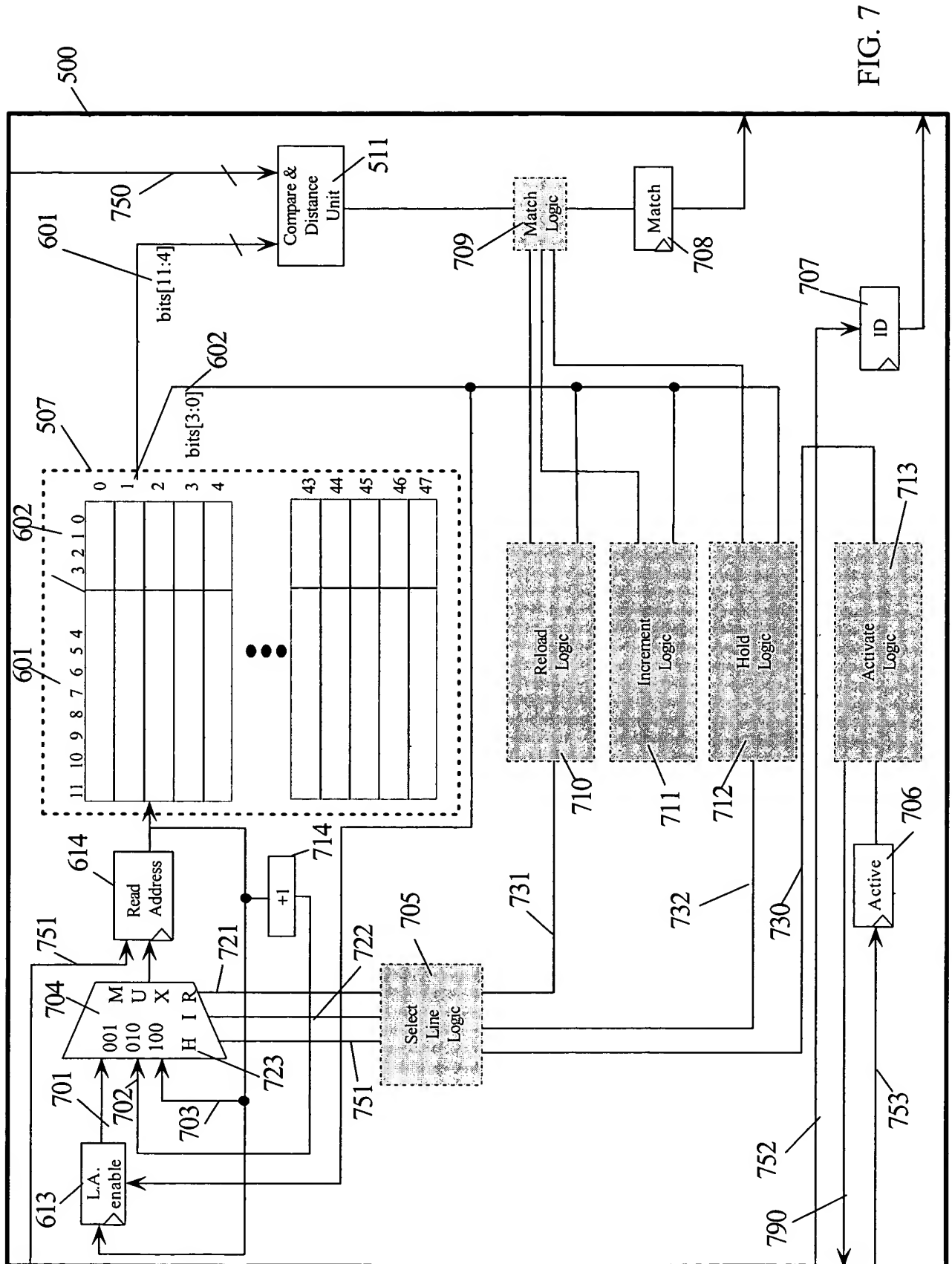


FIG. 7

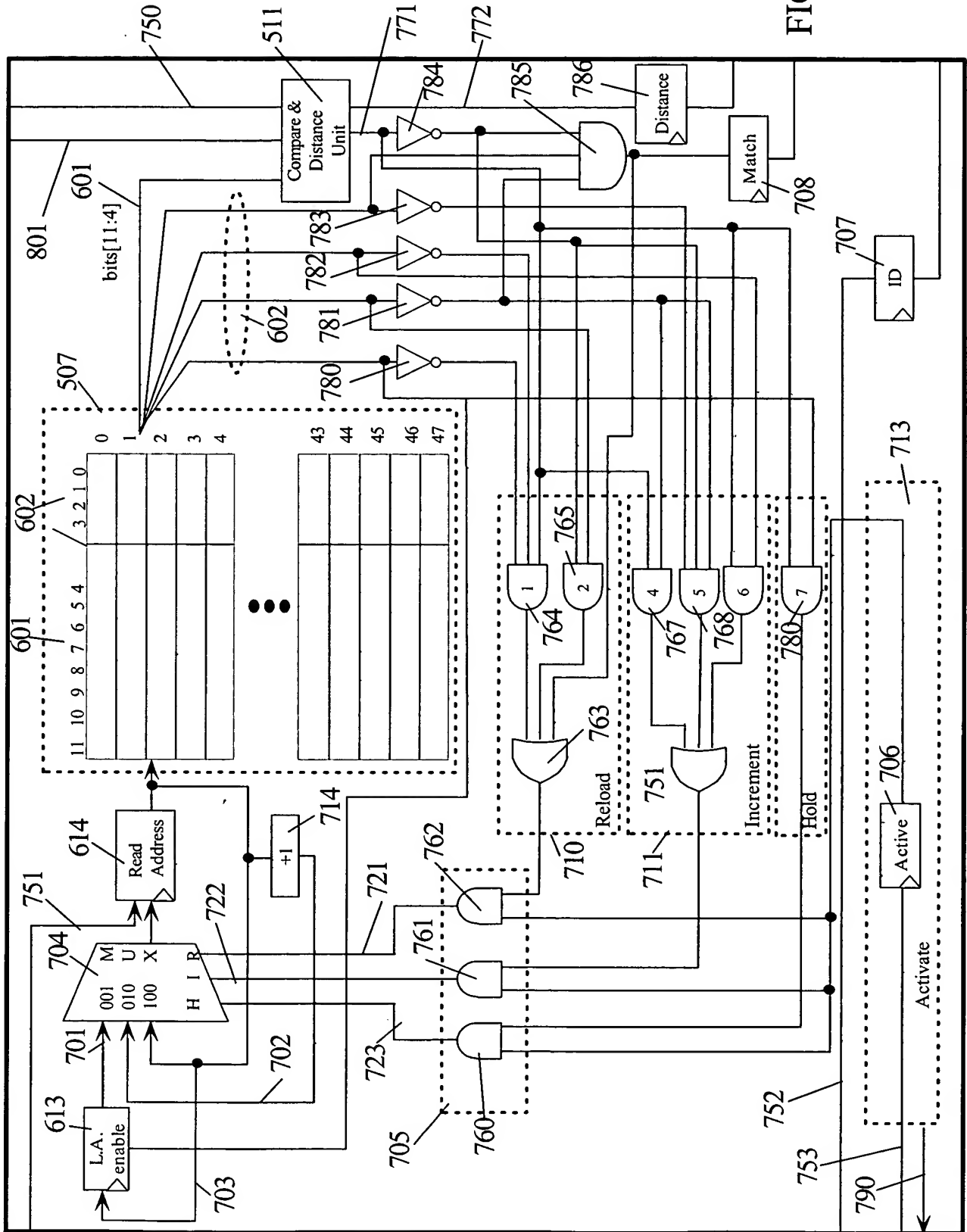


FIG. 8

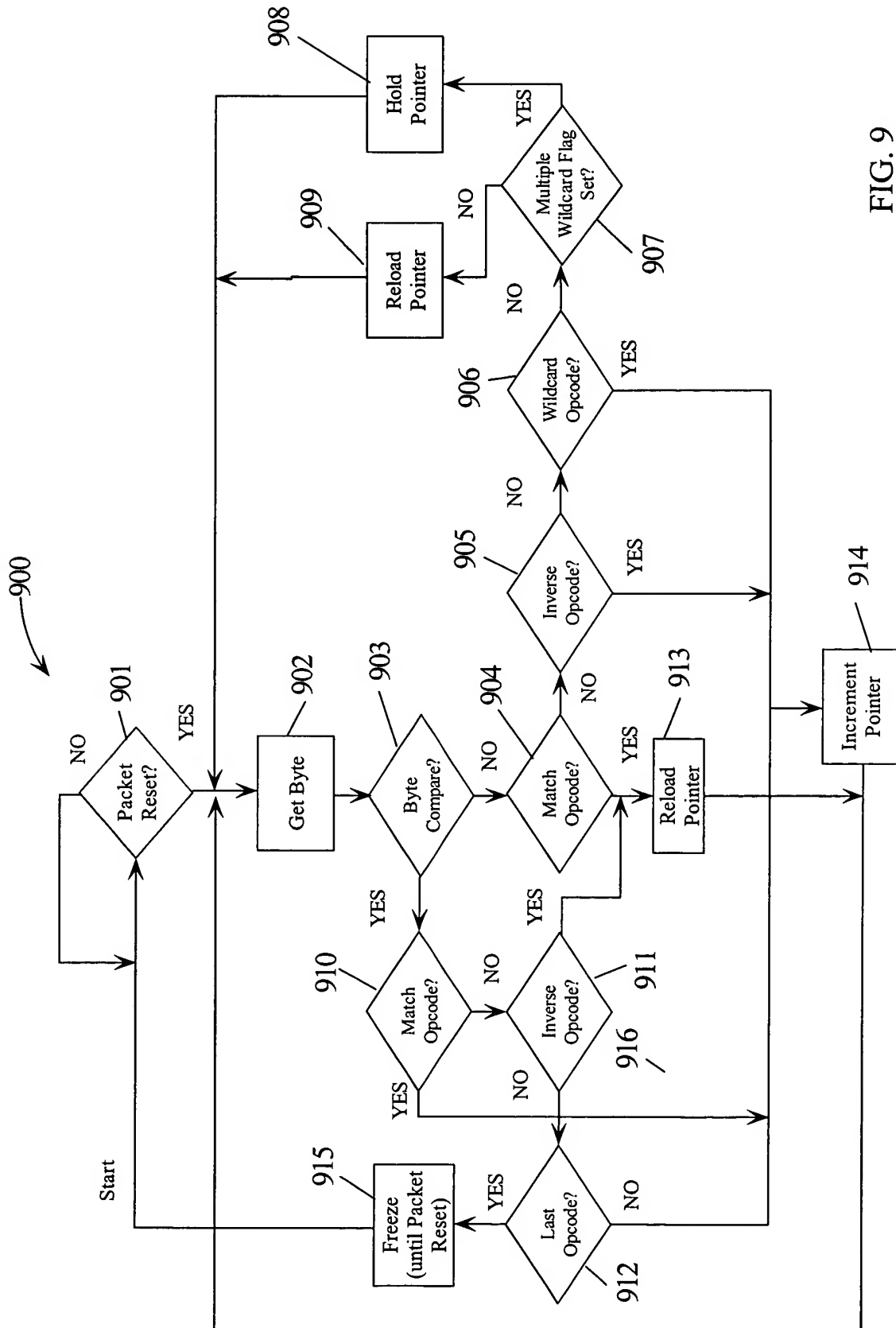


FIG. 9

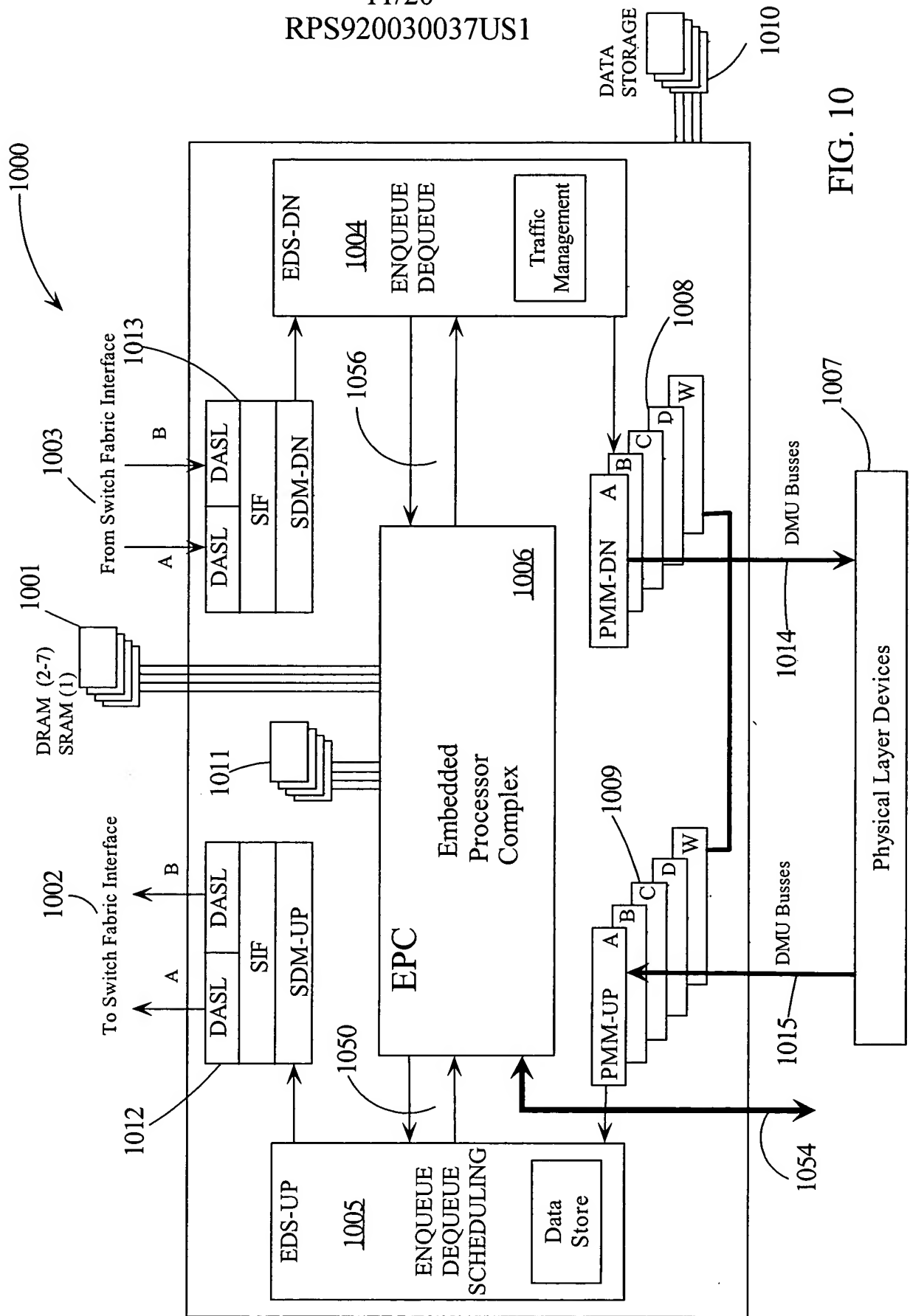
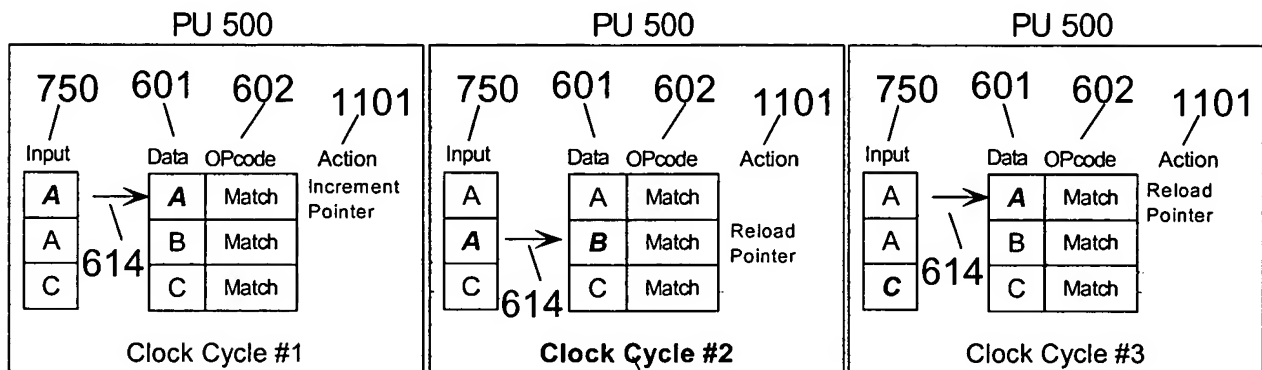


FIG. 10

Case 1: Reload if there is NOT a pattern match and the match OPcode is set
Partial expression to match: "ABC"

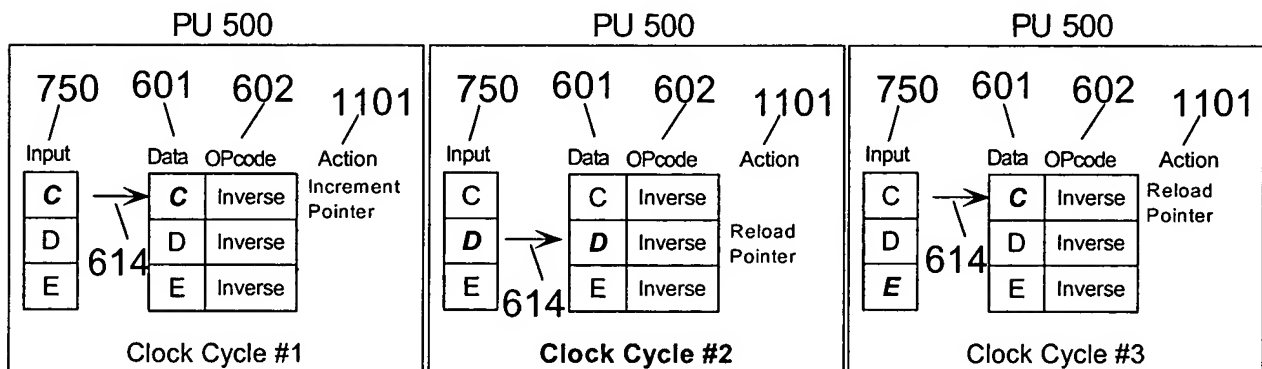


1100

1102

FIG. 11A

Case 2: Reload if there is a pattern match and the inverse OPcode is set for a pattern byte
Partial Expression to match : "C!DE"



1110

1103

FIG. 11B

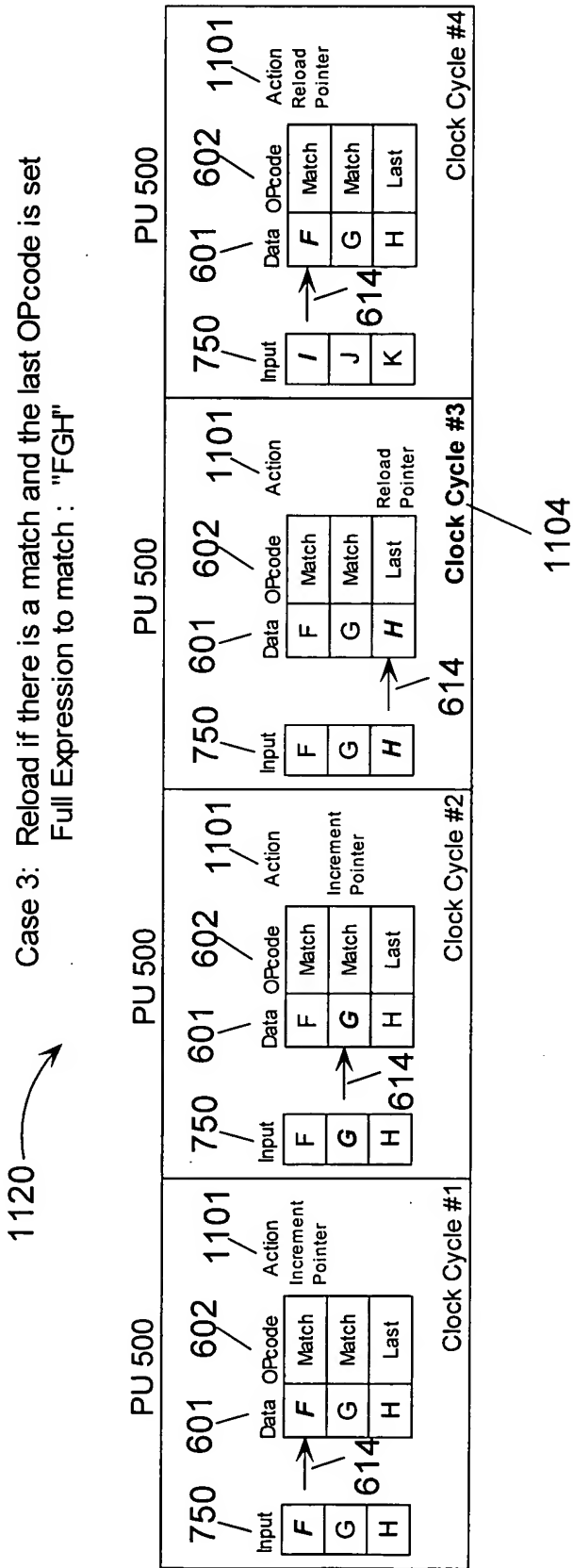


FIG. 11C

Case 4: Increment if there is NOT a pattern match and the inverse OPcode is set
Partial expression to match: "!!LK"

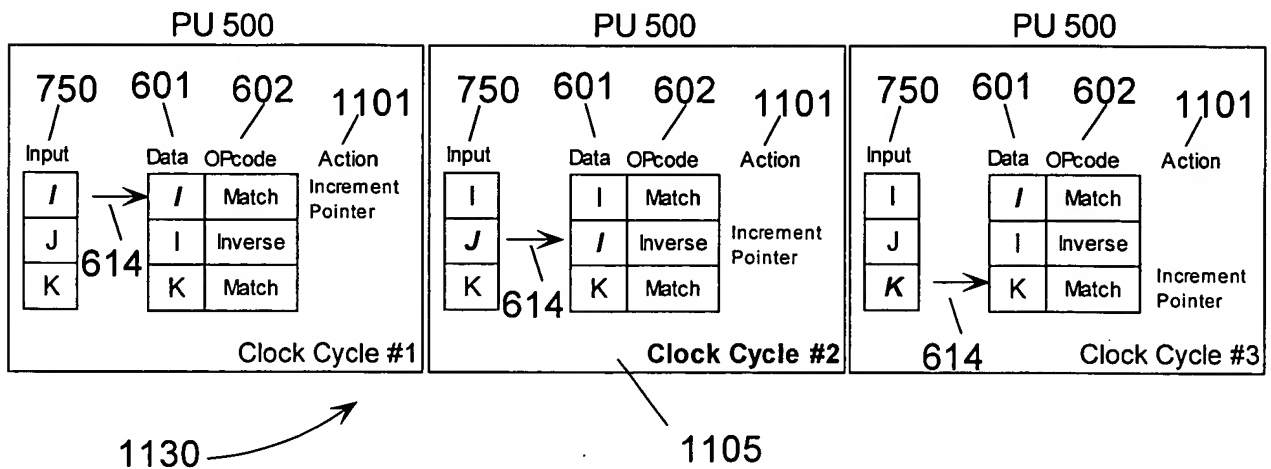


FIG. 11D

Case 5: Increment if there is a pattern match and the match OPcode is set
Partial Expression to match : "LMN"

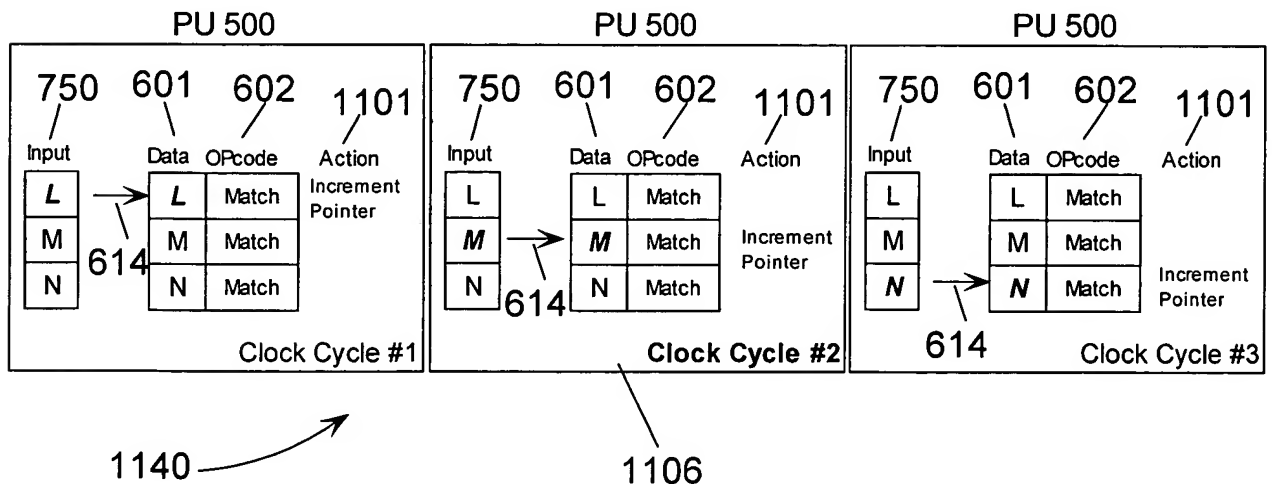
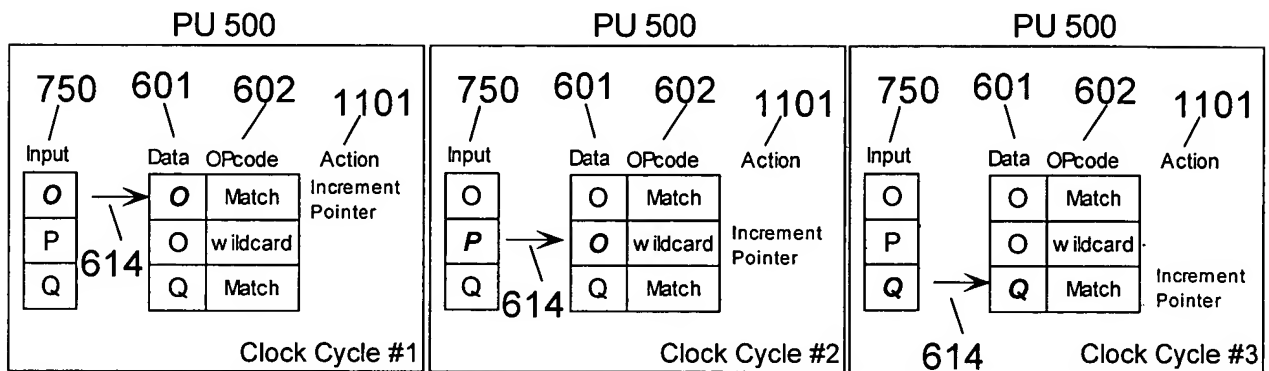


FIG. 11E

Case 6: Increment if there is NOT a pattern match and the wildcard OPcode is set
Partial expression to match: "O•Q"



1150 →

FIG. 11F

1160 → Case 7: Hold if there is NOT a match and the multiple wildcard OPcode is set
Full Expression to match : "TUV"

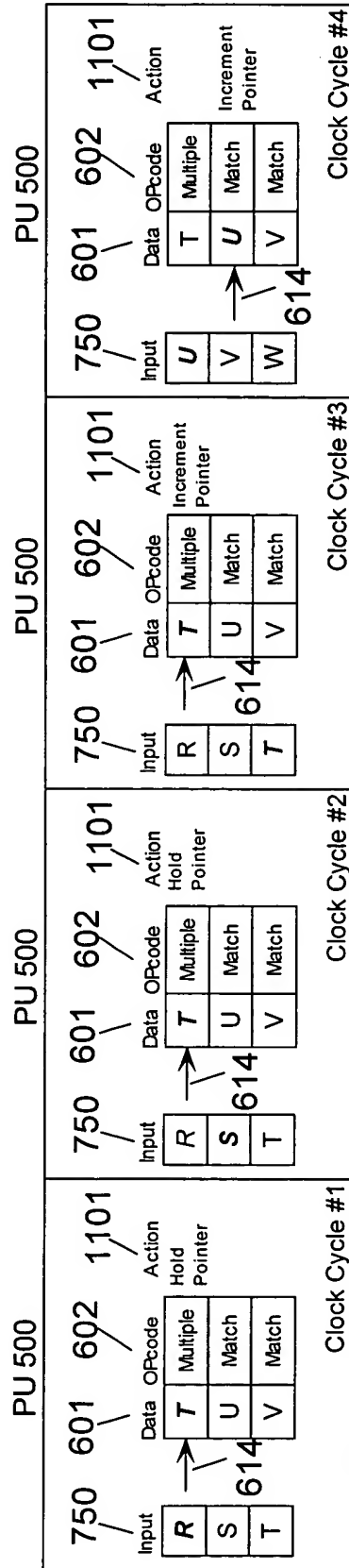


FIG. 11G

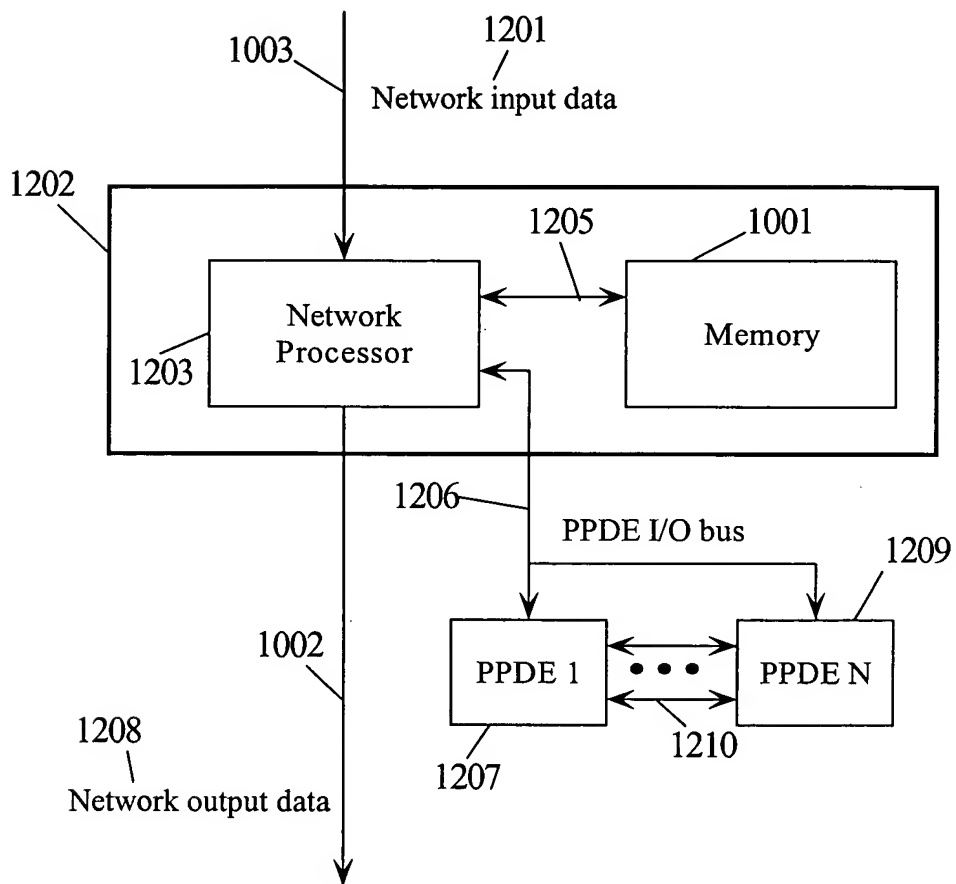


FIG. 12

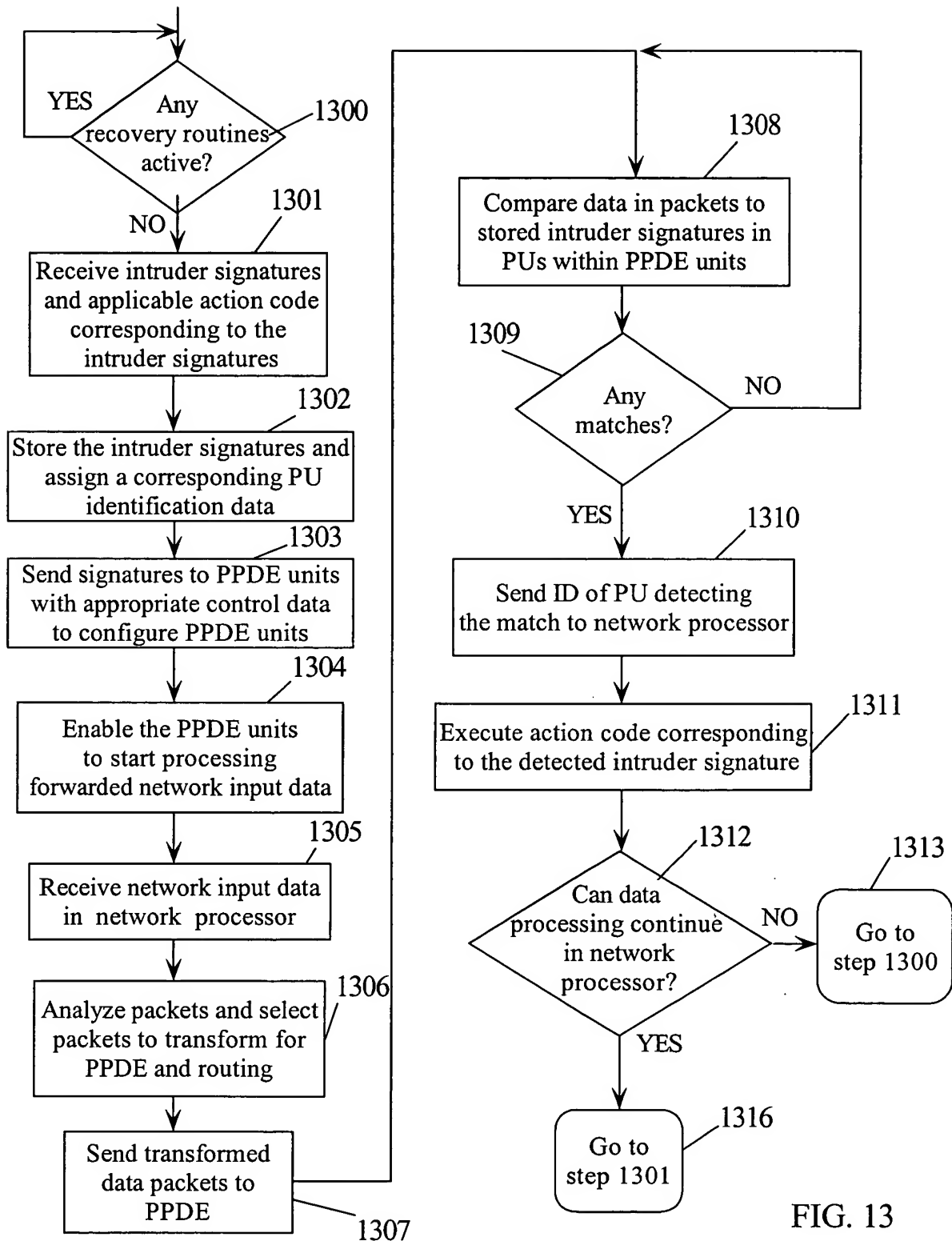


FIG. 13

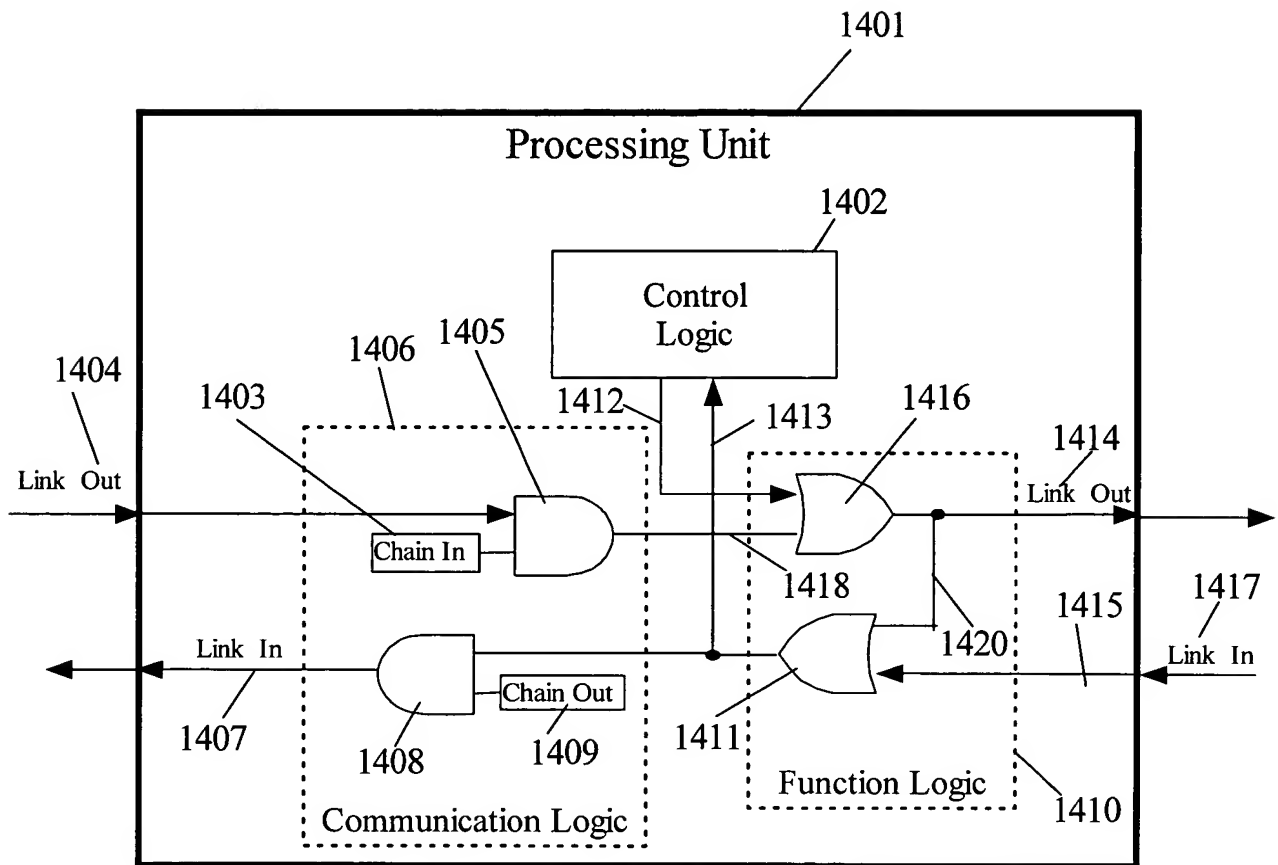


FIG. 14

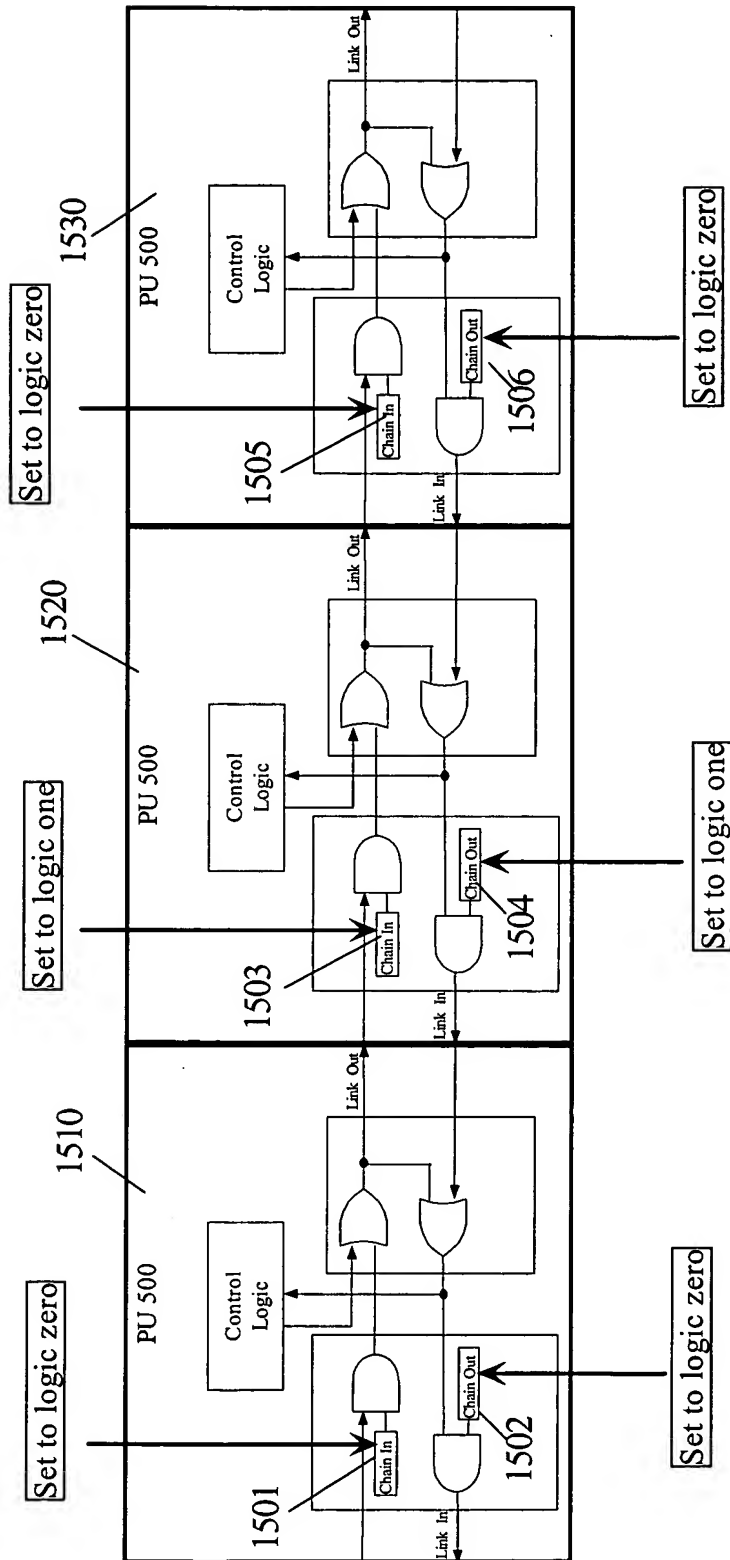


FIG. 15